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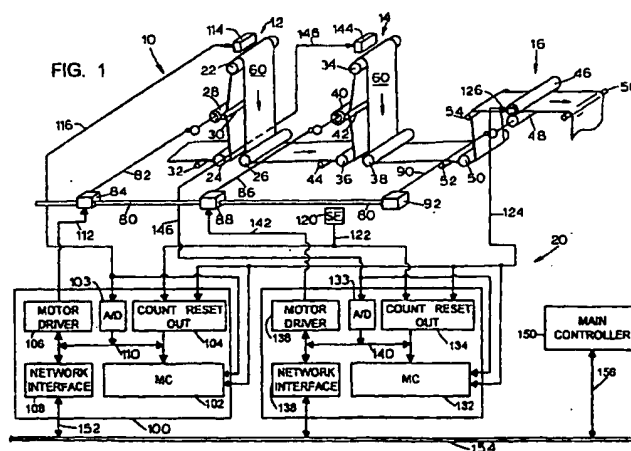
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**(54) Apparatus for scanning colored registration marks**

(57) The present specification describes an apparatus for scanning colored registration marks printed on a moving web by a plurality of printing cylinders 28,40 of a printing press 10, the apparatus being provided with a photoemitter 160 for generating a beam of light directed at the moving web 60, a detector 182 for detecting the amount of light reflected from the moving web 60 and generating a reflectance signal having a magnitude relating to the amount of light, an A/D converter 103,133 for periodically sampling the reflectance signal to generate a number of scan values, a memory for storing the

scan values, and a baseline generator for determining a baseline level of the reflectance signal. The baseline generator may include means for assigning each of the scan values to one of a plurality of predetermined ranges of values based on the magnitude of the scan values, means for determining a baseline range from the plurality of the predetermined ranges based on the range having the largest number of the scan values, and means for determining the baseline level based upon the baseline range. The predetermined ranges may be overlapping ranges.





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## EUROPEAN SEARCH REPORT

Application Number  
EP 97 30 7998

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 4 994 975 A (MINSCHART MARC G) 19 February 1991	6,12	B41F33/00
Y	* the whole document *	1,2, 16-28	
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	* abstract *		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B41F
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 15 September 1998	Examiner Zellhuber, W
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons S : member of the same patent family, corresponding document			

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